# Author Index to Volume 81


Abboud, S., 590
Abresch, T., S81, S151
Ackland, T. R., 801
Adunsky, A., 590
Ahn, S. H., 844
Aiello, D. D., 567
Airaksinen, O., 326
Aissaoui, R., 94, 429
Akalin, E., 108
Aki, S., 721
Akyuz, G., 721
Alaca, R., 788, 807
Albat, B., 584
Allard, P., 429
Allen, D. A., S127
Amrami, K. K., 315
Anderson, C., 936
Arabi, H., 94
Arad, M., 590
Arokoski, J. P. A., 326
Arslan, Ş., 182
Auvin, J., 437

Bach, J. R., 411, 579, 633, 792
Bakdalieh, Y., 21
Bakker, J. P. J., 906
Baldwin, K. M., S40
Baleen, A., 906
Bang, M. S., 297, 760
Basford, J. R., 446
Battaglia, M. A., 168
Bean, J., 696
Beaudoin, N., 890
Beckerman, H., 150
Begeman, P., 645
Belda, J. F., 579
Bennell, K. L., 684
Bennett, S. J., 13
Bénony, H., 437
Betts, H., 126
Bilodeau, S., 890
Blasco, M. L., 579
Boake, C., 355
Bodenheimer, C., 708
Bohannon, R. W., 726
Boh-oka, S., 626
Botwin, K. P., 898
Bouchlas, C. G., 898
Bourbonnais, D., 890
Bouten, C., 261
Bouter, L. M., 150
Bowen, J., 708
Buckley, J. G., 13
Bungener, C., 437
Burke, D. T., 779
Byun, W. M., 844

Cairns, K., 307
Çakmur, R., 108
Calbet, J. A. L., 651
Camme, A., Jr., 395
Campagnolo, D., 502
Capria, M. E., 506
Carlsen, R. C., S28
Carter, G. T., S151
Castro, C., 579
Castro, J., 2
Cavanna, A., 86
Çeliker, R., 182
Cesar, K. W., 798
Chahraoui, K., 437
Chai, H.-M., 822
Chamari, K., 584
Chan, R. C., 350, 467
Chan, R.-C., 283
Chang, Y., 844
Chase, P. M., 101, 421
Chen, B., 395, 633, 718
Chen, C. P. C., 524
Chen, H., 467
Chen, J.-T., 342, 512
Chen, M. J. L., 524
Chen, S.-J., 483
Chen, S.-M., 512
Chen, S.-Y., 68, 336
Chesworth, B., 639
Chi, W.-C., 272
Chien, C.-H., 512
Childers, M. K., 751
Chin, T., 321
Chiou-Tan, F. Y., 2, 207
Chiu, J. W., 350
Chiu, S.-F., 336
Chiu, T., 645
Cho, D.-Y., 952
Chou, L.-W., 952
Chun, M. H., 765
Chung, K.-C., 342
Chung, S. G., 760
Clarkson, P. M., S52
Cleary, M., 47
Cohen, E., 57
Colachis, S. C., III, 232
Connell, J., 47
Conway, R. R., 751
Cosgrove, J. L., 101, 421
Crawford, C., 162
Crossley, K. M., 684
Cullen, N., 21
Cunha, I. T., 848, 913
Currie, D. M., 143

Daloz, L., 437
Dansereau, J., 94
Darm, T., 310
Date, E. S., 524, 629, 830
Daviet, J.-C., 34
Davis, C. H., 609
De Groot, I. J. M., 906
Dekker, J. H. M., 150
DeLisa, J. A., 718, 946
DePrince, M. L., 395, 633
Deschenes, M. R., S3
Deutsch, A., 133
De Vito, E. L., 506
DeVito, M. C., 779
Dewailly, P., 247
Diamond, P. T., 223
Diaz, C. A., 143
Dijkers, M., 21
Di Monaco, M., 86
Di Monaco, R., 86
Di Pompeo, C., 247
Disler, P., 622
Dite, W., 857
Ditunno, J. F., Jr., 557
Drenth, R., 814
Dryden, J. D., 597
Dubrovsky, A., 506
Duchateau, J., S17
Dudognon, P., 34
Duhaime, M., 429
Dumas, H. M., 661
Dvir, Z., 187, 921

Eckardt, A., 8
Edgerton, V. R., S127
El, Ö., 108
Elovic, E., 946
Engel, J. M., 291
Enoka, R. M., S17
Ergeletzis, D., 881
Esper, R. M., 21
Eyles, M., 946

Falkenbach, A., 416
Fast, A., 645, 814
Felmlee, J. P., 315
Ferreyra, G., 506
Fialka-Moser, V., 253
Fiedler, I. G., 798
Fiedler, R. C., 133, 471
Fishman, L. M., 936
Forchheimer, M., 400
Forget, R., 890
Forrest, G., 57
Fowler, W. M., Jr, S1, S2, S80, S151, S187
Foye, P. M., 395, 633, 718, 946
Franchignoni, F. P., 168
Francisco, G. E., 355
Frank, J., 373
Franke, A., 416
Freeman, E. D., 898
Frei, G., 814
Frenay, C., 437
Fridén, Jan, S70
Frisse, D., 478
Froelicher, V. F., 601
Frontera, W. R., S1, S2, S80
Fuchs, S., 478
Fujita, H., 321

Gaebler-Spira, D., 458
Gale, S. D., 223
Garavan, R., 798
Garcia, R. A., 458
Gaudefroy, C., 247
Gehrke, A., 8
Gilbey, H. J., 801
Gitter, A., 310
Gittler, M., 708
Gleeson, N. P., 162
Gnatz, S. M., 751
Göğüş, F., 79
Goktepe, A. S., 807
Gómez-Merino, E., 411, 579
Gonzales, V. A., 471
Goodman, B. S., 66
Gopal, S., 814
Granger, C. V., 133, 168, 471
Gravel, D., 890
Groswasser, Z., 670
Gruber, R. D., 898
Gülbahar, S., 108
Gunduz, S., 788
Guo, Y., 72, 207
Gwinn, T., 261

Haddad, F., S40
Hage, J. J., 177
Haley, S. M., 661
Halperin, N., 670
Hamm, R. J., 364
Han, B. S., 844
Han, T. R., 297
Hansford, A., 622
Hanson, C., 194
Hayat, M., 798
Hayot, M., 584
Heinemann, A. W., 458
Henson, H., 848
Hepworth, J., 622
Herbison, G. J., 557
Hinman, R. S., 684
Holland, G. J., 675
Hong, C.-Z., 212, 342, 512
Horton, J. A. III, 792
Hou, C.-R., 342
Hsi, W.-L., 822
Hsieh, L.-F., 272
Hsieh, R.-L., 838
Hsu, C.J., 336
Hsu, T. H. C., 524
Huang, T.-S., 483
Hubal, M. J., S52
Hunt, D., 792
Hwang, J. H., 765

Ichimura, S., 453
Illig, S. B., 471
Inanıcı, F., 182
Inouye, M., 279
Iwamoto, J., 453
Iwasa, K., 446

Jain, S. S., 946
Jamshidi, M., 202
Jang, S. H., 844
Jensen, M. P., 291
Jim, Y.-F., 952
Jones, G. R., 489
Jones, S., 913
Judelson, A. L., 779

Kalisetti, D., 601
Kalyon, T. A., 807
Kamani, N., 143
Kankaanpää, M., 326
Kao, C. L., 350
Kao, M.-J., 952
Kao, N. T., 350
Karataş, G. K., 79
Karsidag, S., 721

# Author Index to Volume 81


Abboud, S., 590
Abresch, T., S81, S151
Ackland, T. R., 801
Adunsky, A., 590
Ahn, S. H., 844
Aiello, D. D., 567
Airaksinen, O., 326
Aissaoui, R., 94, 429
Akalin, E., 108
Aki, S., 721
Akyuz, G., 721
Alaca, R., 788, 807
Albat, B., 584
Allard, P., 429
Allen, D. A., S127
Amrami, K. K., 315
Anderson, C., 936
Arabi, H., 94
Arad, M., 590
Arokoski, J. P. A., 326
Arslan, Ş., 182
Auvin, J., 437

Bach, J. R., 411, 579, 633, 792
Bakdalieh, Y., 21
Bakker, J. P. J., 906
Baldwin, K. M., S40
Baleen, A., 906
Bang, M. S., 297, 760
Basford, J. R., 446
Battaglia, M. A., 168
Bean, J., 696
Beaudoin, N., 890
Beckerman, H., 150
Begeman, P., 645
Belda, J. F., 579
Bennell, K. L., 684
Bennett, S. J., 13
Bénony, H., 437
Betts, H., 126
Bilodeau, S., 890
Blasco, M. L., 579
Boake, C., 355
Bodenheimer, C., 708
Bohannon, R. W., 726
Boh-oka, S., 626
Botwin, K. P., 898
Bouchlas, C. G., 898
Bourbonnais, D., 890
Bouten, C., 261
Bouter, L. M., 150
Bowen, J., 708
Buckley, J. G., 13
Bungener, C., 437
Burke, D. T., 779
Byun, W. M., 844

Cairns, K., 307
Çakmur, R., 108
Calbet, J. A. L., 651
Camme, A., Jr., 395
Campagnolo, D., 502
Capria, M. E., 506
Carlsen, R. C., S28
Carter, G. T., S151
Castro, C., 579
Castro, J., 2
Cavanna, A., 86
Çeliker, R., 182
Cesar, K. W., 798
Chahraoui, K., 437
Chai, H.-M., 822
Chamari, K., 584
Chan, R. C., 350, 467
Chan, R.-C., 283
Chang, Y., 844
Chase, P. M., 101, 421
Chen, B., 395, 633, 718
Chen, C. P. C., 524
Chen, H., 467
Chen, J.-T., 342, 512
Chen, M. J. L., 524
Chen, S.-J., 483
Chen, S.-M., 512
Chen, S.-Y., 68, 336
Chesworth, B., 639
Chi, W.-C., 272
Chien, C.-H., 512
Childers, M. K., 751
Chin, T., 321
Chiou-Tan, F. Y., 2, 207
Chiu, J. W., 350
Chiu, S.-F., 336
Chiu, T., 645
Cho, D.-Y., 952
Chou, L.-W., 952
Chun, M. H., 765
Chung, K.-C., 342
Chung, S. G., 760
Clarkson, P. M., S52
Cleary, M., 47
Cohen, E., 57
Colachis, S. C., III, 232
Connell, J., 47
Conway, R. R., 751
Cosgrove, J. L., 101, 421
Crawford, C., 162
Crossley, K. M., 684
Cullen, N., 21
Cunha, I. T., 848, 913
Currie, D. M., 143

Daloz, L., 437
Dansereau, J., 94
Darm, T., 310
Date, E. S., 524, 629, 830
Daviet, J.-C., 34
Davis, C. H., 609
De Groot, I. J. M., 906
Dekker, J. H. M., 150
DeLisa, J. A., 718, 946
DePrince, M. L., 395, 633
Deschenes, M. R., S3
Deutsch, A., 133
De Vito, E. L., 506
DeVito, M. C., 779
Dewailly, P., 247
Diamond, P. T., 223
Diaz, C. A., 143
Dijkers, M., 21
Di Monaco, M., 86
Di Monaco, R., 86
Di Pompeo, C., 247
Disler, P., 622
Dite, W., 857
Ditunno, J. F., Jr., 557
Drenth, R., 814
Dryden, J. D., 597
Dubrovsky, A., 506
Duchateau, J., S17
Dudognon, P., 34
Duhaime, M., 429
Dumas, H. M., 661
Dvir, Z., 187, 921

Eckardt, A., 8
Edgerton, V. R., S127
El, Ö., 108
Elovic, E., 946
Engel, J. M., 291
Enoka, R. M., S17
Ergeletzis, D., 881
Esper, R. M., 21
Eyles, M., 946

Falkenbach, A., 416
Fast, A., 645, 814
Felmlee, J. P., 315
Ferreyra, G., 506
Fialka-Moser, V., 253
Fiedler, I. G., 798
Fiedler, R. C., 133, 471
Fishman, L. M., 936
Forchheimer, M., 400
Forget, R., 890
Forrest, G., 57
Fowler, W. M., Jr, S1, S2, S80, S151, S187
Foye, P. M., 395, 633, 718, 946
Franchignoni, F. P., 168
Francisco, G. E., 355
Frank, J., 373
Franke, A., 416
Freeman, E. D., 898
Frei, G., 814
Frenay, C., 437
Fridén, Jan, S70
Frisse, D., 478
Froelicher, V. F., 601
Frontera, W. R., S1, S2, S80
Fuchs, S., 478
Fujita, H., 321

Gaebler-Spira, D., 458
Gale, S. D., 223
Garavan, R., 798
Garcia, R. A., 458
Gaudefroy, C., 247
Gehrke, A., 8
Gilbey, H. J., 801
Gitter, A., 310
Gittler, M., 708
Gleeson, N. P., 162
Gnatz, S. M., 751
Göğüş, F., 79
Goktepe, A. S., 807
Gómez-Merino, E., 411, 579
Gonzales, V. A., 471
Goodman, B. S., 66
Gopal, S., 814
Granger, C. V., 133, 168, 471
Gravel, D., 890
Groswasser, Z., 670
Gruber, R. D., 898
Gülbahar, S., 108
Gunduz, S., 788
Guo, Y., 72, 207
Gwinn, T., 261

Haddad, F., S40
Hage, J. J., 177
Haley, S. M., 661
Halperin, N., 670
Hamm, R. J., 364
Han, B. S., 844
Han, T. R., 297
Hansford, A., 622
Hanson, C., 194
Hayat, M., 798
Hayot, M., 584
Heinemann, A. W., 458
Henson, H., 848
Hepworth, J., 622
Herbison, G. J., 557
Hinman, R. S., 684
Holland, G. J., 675
Hong, C.-Z., 212, 342, 512
Horton, J. A. III, 792
Hou, C.-R., 342
Hsi, W.-L., 822
Hsieh, L.-F., 272
Hsieh, R.-L., 838
Hsu, C.J., 336
Hsu, T. H. C., 524
Huang, T.-S., 483
Hubal, M. J., S52
Hunt, D., 792
Hwang, J. H., 765

Ichimura, S., 453
Illig, S. B., 471
Inanıcı, F., 182
Inouye, M., 279
Iwamoto, J., 453
Iwasa, K., 446

Jain, S. S., 946
Jamshidi, M., 202
Jang, S. H., 844
Jensen, M. P., 291
Jim, Y.-F., 952
Jones, G. R., 489
Jones, S., 913
Judelson, A. L., 779

Kalisetti, D., 601
Kalyon, T. A., 807
Kamani, N., 143
Kankaanpää, M., 326
Kao, C. L., 350
Kao, M.-J., 952
Kao, N. T., 350
Karataş, G. K., 79
Karsidag, S., 721

Kartin, D., 291
Kaul, M. P., 597, 691
Kawada, T., 424
Keren, O., 670
Kerr, J., 622
Kevorkian, C. G., 881
Kiely, D. K., 696
Kilmer, D. D., S121, S148
Kim, H., 731
Kim, H. S., 765
Kim, I. W., 297
Kim, J. M., 765
Kim, N., 502
Kim, S. B., 760
Kim, S.-J., 760
Kim, W.-O., 373
King, J., 708
Kiratli, J., 601
Kirschberg, G. J., 66
Kirshblum, S. C., 502
Kleppel, J. B., 114
Ko, H.-Y., 731
Koike, K., 571
Kraemer, W. J., S3
Kreulen, M., 177
Kropp, G. C., 21
Kuan, T.-S., 512
Kubota, K., 40
Kuo, T. B. J., 350
Kurabayashi, H., 40
Kurabayashi, M., 929
Kwon, J.-Y., 765

Laaβ, H., 478
Lachance, R., 429
Lacoste, M., 94
Lai, J.-S., 68, 336, 822
Lamarre, C., 736
Lan, C., 68, 336
Lang, T., 253
Lankhorst, G. J., 150, 906
Latta, D., 779
Laud, P., 798
Lauder, T. D., 315
Lebreton, F., 34
Lee, E., 830
Lee, E.-H., 629
Lee, J., 844
Lee, J. Z., 731
Lee, N., 726
Lee, P. K. W., 765
Lee, S.S., 467
Lee, W.-C., 838
Lee, W.-J., 483
Lepage, Y., 890
Leveille, S. G., 696
Levine, P., 857
Levy, C. E., 194
Lew, H. L., 524, 629, 830
Li, Y.-W., 483
Lieber, R. L., S70
Lieberman, D., 745
Lieberman, D. V., 745
Liebermann, A., 8
Likourezos, A., 373
Lim, J. Y., 297
Lim, P. A. C., 848
Lin, C.-C., 68
Lin, M. C., 68
Lin, P. H., 467
Lincoln, A. E., 114
Liu, T. J., 350
Lo, S.-F., 952
Lo, S. K., 202
López-Rego, J., 651
Lou, S.-M., 272
Ludlow, L. H., 661
Ludvigsdottir, G. K., 143
Lynn, R., 814
Lynn, S. G., 241

Machida, I., 40
Maeda, T., 446
Maeshima, S., 626
Makoul, G., 126
Maljanian, R., 726
Manca, M., 86
Marcus, R., 601
Marín, J., 579
Mast, N. J., 101, 421
Matsuo, S., 446
McDonald, C. M., S108
McKenna, C., 633
McKenna, K., 47
McPeak, L., 708
Melamed, E., 670
Melnik, I., 629
Memmo, P., 502
Meray, J., 79
Mercer, T. H., 162
Mercier, B., 584
Mercier, J., 584
Mesa, L., 506
Metcalf, B. R., 684
Middleton, S., 622
Miller, R. G., S99
Miller, T. A., 489
Millis, S., 502
Millis, S. R., 946
Mitchell, M. C., 77
Mohur, H., 807
Monga, T., 848
Monteiro, S. G., 506
Monti, R. J., S127
Morris, J., 696
Moss, F., 2
Mulder, T., 177
Munoz, M., 34
Murakami, M., 279
Muramatsu, H., 571
Muslumanoglu, L., 721
Myers, J., 601

Nadler, S. F., 395, 718, 946
Nagakura, Y., 321
Nagata, K., 446
Naish, P.F., 162
Najar, M. P., 395
Nakagawa, A., 321
Nakajima, S., 321
Neufeld, R., 373
Nishimura, H., 446

O'Driscoll, D., 13
Ogino, M., 446
Oh-Park, M., 814
Oh-Park, M. Y., 765
Ojima, I., 321
O'Mara, G., 601
Öncel, S., 108
O'Reilly, J., 622
Otsuka, H., 321
Ottenbacher, A. J., 471
Ottenbacher, K., 47
Overend, T., 639
Oyabu, H., 321

Page, S. J., 857
Pagel, K. J., 597, 691
Pardessus, V., 247
Park, H. J., 731
Park, J. H., 731
Parziale, J. R., 498
Paternostro-Sluga, T., 253
Paynter, K., 310
Peker, Ö., 108
Pelissier, J., 34
Peretz, C., 187
Perkash, I., 601
Perrault, R., 429
Perrigot, M., 34
Perucca, L., 168
Pessolano, F. A., 506
Petrella, R. J., 489, 639
Petrof, B. J., S162
Piso, D. U., 8
Ponce, J., 651
Prakash, M., 601
Préfaut, C., 584
Preux, P.-M., 34
Protas, E. J., 848, 913
Puisieux, F., 247

Qureshy, H., 848

Rabin, J. P., 661
Radai, M. M., 590
Ramos, R. D., 66
Rando, T. A., S175
Rao, S., 898
Raxwal, V., 601
Reeves, R., 101
Ring, H., 590
Rintala, D., 881
Ritt, M. J. P. F., 177
Robichaud, L., 736
Robinson, D., 670
Robinson, L. R., 2
Rodríguez, L. P., 651
Rosati, D. L., 90
Rosenbaum, D., 478
Rosner, B., 936
Roy, R. R., S127
Russell, C. F., 133, 168

Sadeghi, H., 429
Sadeghi, S., 429
Sakai, T., 675
Sakamaki, T., 929
Sakamoto, H., 929
Salle, J.-Y., 34
Sancho, J., 579
Sanelli, J. T., 898
Sawamura, S., 321
Schneider, J. C., 779
Schuhfried, O., 253
Schwam, A., 57
Şenocak, Ö., 108
Seror, P., 876
Servera, E., 579
Shapiro, A. P., 236
Sherman, A. K., 751
Shiba, N., 446
Shih, T. T.-F., 68
Si, M., 373
Silver, J. K., 567
Simmonds, M. J., 913
Simmons, S., 373
Simons, D. G., 212
Simons, L. S., 212
Sinaki, M., 241
Sisto, S. A., 857
Sisung, C., 458
Skelton, J., 622
Slaten, W. K., 898
Sliwa, J. A., 126, 708
Smeulders, M. J. C., 177
Smith, A. W., 202
Smith, P. M., 471
Snels, I. A. K., 150
Sosner, J., 645
Stein, J., 307
Steinfeld-Cohen, Y., 187
Stewart, K. J., 223
Stitik, T. P., 395, 633, 718
Strakowski, J. A., 77
Strakowski, M. M., 77
Stretanski, M. F., 383, 392
Strong, J., 47
Stuart, M. J., 315
Su, C.-T., 483
Suárez, A. A., 506
Sugai, Y., 929
Sullivan, C., 622
Suputtitada, A., 770

Tagawa, Y., 446
Takeda, T., 453
Tamci, Ş., 108
Tamir, A., 590
Tamura, K., 40
Tanaka, K., 675
Tang, S. F. T., 524
Tani, T., 929
Tate, D. G., 400
Teasell, R. W., 236
Temple, V. A., 857
Teramoto, A., 571
Tesio, L., 168
Thevenon, A., 247
Thomas, M. A., 645
Tibesku, C. O., 478
Tooth, L., 47
Torres-Ramos, F. M., 898
Tran, T., 2
Tsai, M.-W., 283
Tulsky, D., 946

Ueno, M., 626
Ueyoshi, A., 626
Us, O., 721

Vacariu, G., 253
Valero, R., 651
Valta, T., 326
van der Lee, J. H., 150
van der Linden, S., 416
van der Woude, L. H. V., 261
van Tubergen, A., 416
Varela, E., 651

Varray, A., 584
Vaughn, A., 355
Veeger, H. E. G., 261
Vieira, A., 601
Villarin, J. J., S28
Ville, N. S., 584

Walden, G., 310
Wallach, N., 670
Walsh, S. A., S81
Wang, A. W., 801
Wang, H.-C., 272
Wang, R.-Y., 283
Wang, W. T. J., 283
Wang, Y.-H., 483
Weber, G. J., 383
Wetterhahn, K., 194
Wilson, D. J., 751
Wilson, M. S., 364
Wineinger, M. A., S81
Winston, F. K., 114
Wright, P., 622

Yadav, R., 72
Yamamoto, T., 446
Yang, T. F., 350, 467
Yang, Y.-R., 283
Yavuzer, G., 21
Yilmaz, B., 788, 807
Yoon, B. H., 297

Zalzal, V., 94
Zeiner, H., 830
Zohman, L., 814

**STATEMENT OF OWNERSHIP MANAGEMENT AND CIRCULATION (Required by 39 U.S.C. 3685)**

1. Publication Title: American Journal of Physical Medicine and Rehabilitation
2. Publication no.: 0894-9115. 3. Filing date: 10-01-02. 4. Frequency of issue: Monthly.
5. No. of issues published annually: 12; 6. Annual subscription price: $169.00.
7. Complete mailing address of known office of publication: Lippincott Williams & Wilkins, 16522 Hunters Green Parkway, Hagerstown, MD 21740-2116. 8. Complete mailing address of the headquarters of general business offices of the publisher: 530 Walnut Street, Philadelphia, PA 19106.
9. Full names and complete mailing address of publisher, editor, and managing editor: Publisher: Lippincott Williams & Wilkins, Inc., 530 Walnut Street, Philadelphia, PA 19106; Editor: Ernest W Johnson, M.D., Ohio State University, Meiling Hall, Room 235, 370 W. 9th Avenue, Columbus, OH 43210. Managing Editor: Brad Johns, AAP, 7100 Lakewood Bldg., Suite 112, 5987 E. 71st Street, Indianapolis, IN 46220. 10. Owner: Lippincott Williams & Wilkins, 530 Walnut Street, Philadelphia, PA 19106.
11. Known bondholders, mortgagees, and other security holders owning or holding 1% or more of total amount of bonds, mortgages, or other securities: None.
12. Purpose, function, and nonprofit status: Has not changed during preceding 12 months.
13. Publication Name: American Journal of Physical Medicine and Rehabilitation
14. Issue Date for circulation data: Volume 81, Issue 12.
15. Extent and nature of circulation: Average number of copies each issue during preceding 12 months: (a) Total No. copies (Net Press Run), 4,550. (b) Paid and/or requested circulation; (1) Paid/Requested Outside-County Mail Subscriptions Stated on Form 3541. (Include advertiser's proof and exchange copies), 3,221; (2) Paid In-County Subscriptions (Include advertiser's proof and exchange copies), N/A; (3) Sales Through Dealers and Carriers, Street Vendors, Counter Sales, and Other Non-USPS Paid Distribution, 888; (4) Other Classes Mailed Through the USPS, N/A. (c) Total Paid and/or Requested Circulation (Sum of 15b. (1), (2), (3), and (4)), 4,109. (d) Free Distribution by Mail (Samples, complimentary, and other free). (1) Outside-Country as Stated on Form 3541, 96; (2) In-countryas Stated on Form 3541, N/A; (3) Other Classes Mailed Through the USPS, N/A. (e) Free distribution outside the mail (carriers or other means), 40. (f Total free distribution (sum of 15d and 15e), 136. (g) Total distribution (Sum of 15c and .15f) 4,245. (h) Copies not distributed, 305. (i) Total (sum of 15g and h), 4,550. (j) Percent Paid and/or Requested Circulation (15c divided by 15g times 100), 97%. No. copies of single issue published nearest to filing date: (a) Total no. copies (Net Press Run), 4,700. (b) Paid and/or requested circulation; (1) Paid/Requested Outside-country mail subscriptions stated on form 3541. (Include advertiser's proof and exchange copies). 2,636; (2) Paid in-countysubscriptions (include advertiser's proof and exchange copies, N/A; (3) Sales through dealers and carriers, street vendors, counter sales, and other non-USPS Paid Distribution, 810; (4) Other classes mailed through the USPS, N/A. (c) Total paid and/or requested circulation (sum of 15b, (1), (2), (3), and (4)), 3,446.. (d) Free distribution by mail (samples, complimentary, and other free copies), 154. (e) Free distribution outside the mail (carriers or other means), 107. (f) Total free distribution (sum of 15d and 15e), 261 (g) Total distribution (Sum of 15c and 15f), 3,707. (h) Copies not distributed: 993. (i) Total (sum of 15g and h), 4,700. (j) Percent Paid and/or Requested Circulation (15c divided by15g times 100), 93%.
16. This Statement of Ownership will be printed in volume 81, issue 12 ofthis publication.
17. I certify that the statements made byme above are correct and complete.

Jeffrey Brown
Manager, Periodical Operations

# Subject Index to Volume 81


Abdominal muscles, activation, assisted versus nonassisted exercise, 326
Accommodation index, diagnosis of muscle denervation, 253
Activities of daily living
  bone fractures in severely disabled persons, 424
  predictors of acute hospital stroke outcomes, 726
  selective posterior rhizotomy in transverse myelitis, 467
Adrenal gland, volume after spinal cord injury, 483
Aerobic capacity
  elite wheelchair athletes, 261
  subjects with low back pain, 913
Aerobic exercise
  during hemodialysis, 814
  response to training, humans with neuromuscular disease, S148
  role of physical activity and exercise training, neuromuscular disease, S187
Aerobic performance, patients with heart transplant, 584
Aging
  ankylosing spondylitis, assessment of functional ability, 416
  coping strategies, identifying, 736
  development of clinical measure for turning, 857
  DVT after hip fracture surgery, 745
  hip fracture rehabilitation outcomes, 489
  home visits for falls and autonomy, 247
  malnutrition in rehabilitation, 77
  manual wheelchair propulsion, biomechanics, 94
  movement impairments and disability, 696
  nursing home rehabilitation program outcomes, 373
  rehabilitation of older stroke patients, 881
Agitation, brain injury, early polyneuropharmacologic intervention, 90
Ambulation
  after total hip arthroplasty, perioperative exercise programs, 801
  cessation, patients with Duchenne muscular dystrophy, predictive factors, 906
American Spinal Injury Association (ASIA), guidelines, 502
Amputation
  life satisfaction and spirituality, 400
  lower limb
    body image, physical activity and, 194
    influence of rotators in prosthetic gait, 310
    physical fitness, 321
    postural sway and active balance performance, 13
Amyotrophic lateral sclerosis, expiratory flows, 506
Ankle frontal plane, muscle powers and gait patterns, 429
Ankylosing spondylitis
  assessment of functional ability, older patients, 416
  manifested by spontaneous anterior atlantoaxial subluxation, 952
Anterior atlantoaxial subluxation, spontaneous, manifestation of ankylosing spondylitis, 952
Anterior hypopituitarism, after penetrating head injury, with delayed onset of diabetes insipidus, 788
Aphasia, white-coat effect and speech therapy, 929
Arthroplasty, *see* Hip arthroplasty; Knee arthroplasty
ASIA, *see* American Spinal Injury Association
Athletes, wheelchair, aerobic work capacity, 261
Autonomic dysreflexia, hypothermia and, after traumatic spinal cord injury, 232
Autonomic function, power spectrum analysis in cerebral palsy, 350
Autonomic nervous system, functions, evaluation, post-stroke patients, 721
Autonomy, patient
  benefits of home visits, elderly, 247
  clinical ethics in rehabilitation medicine, 708

Back pain, *see* Low back pain
Baclofen, intrathecal pump, patient with locked-in syndrome, 307
Bacteria, inhibiting, skin pH in hemiplegia, 40
Balance
  development of clinical measure for turning, older adults, 857
  performance, highly active lower-limb amputees, 13
  reducing risk of falls in osteoporosis, 241
Ballet, classical
  full-contact sport, 393
  medical and rehabilitation issues, 383
Barthel index, functional recovery after hip fracture, 86
Bath Ankylosing Spondylitis Functional Index, 416
Beauty parlor stroke syndrome, 395
Biomechanics
  ankle muscle powers and gait patterns, 429
  clinical measurement of muscle tone, 202
  influence of rotators in prosthetic gait, 310
  manual wheelchair propulsion, elderly, 94
Blood flow, central nervous system, in cervical extension, 395
Body image, amputees, effect of participation in physical activity, 194
Bone, heterotopic, brain injury-related formation, 670
Bone marrow transplantation, scleroderma, chronic graft versus host disease, topical treatment, 143
Bone mineral density
  bone fractures in severely disabled persons, 424
  etidronate and cessation of exercise, 452
Book Reviews
  *Atlas of Imaging in Sports Medicine*, 520
  *Clinical Sports Medicine, 2nd Edition*, 650
Botulinum toxin
  change in muscle length after injection, cerebral palsy, 760
  dilution techniques, upper limb spasticity, acquired brain injury, 355
  endplate noise in myofascial trigger spots, 512
  intramuscular injection, upper limb spasticity, stroke patients, 272
  local injections, treatment of spastic toes, 770
  physical therapy and, treatment of piriformis syndrome, 936
  treatment of interosseous twitch, 66
  use in piriformis muscle syndrome, 751
Brain injury, traumatic
  agitation, early polyneuropharmacologic intervention, 90
  botulinum toxin in upper limb spasticity, 355
  cognitive event-related potentials, 524
  diabetes insipidus after head injury, 788
  discharge needs after acute trauma care, 114
  mild, self-perception, 609
  pediatric, functional recovery, 661
  primary motor cortex injury, evidence for motor cortex reorganization, 844
  recovery of cognitive function, effects of fluoxetine, 364
  -related heterotopic bone formation, 670
Bulbar muscle impairment, patients with neuromuscular disease, 506

CABG, *see* Coronary artery bypass grafting
Calcium channel blocker, effects on electrical activity in myofascial trigger spots, 342
Calcium homeostasis, exercising skeletal muscle, S28
Calf muscle, spastic, change in muscle length after block, cerebral palsy, 760

Cancer, life satisfaction and spirituality, 400
Capillaries, muscle fiber changes in road cyclists, 651
Cardiac rehabilitation, exercise training, 336
Cardiac tamponade, spinal cord infarction caused by, 68
Cardiac transplantation, aerobic performance, effect of enhanced heart rate reserve, 584
Cardiopulmonary training, response, humans with neuromuscular disease, S148
Cardiorespiratory function, improvement after PTCA or CABG, 336
Caregiver burden, time of care for patients after discharge, 57
Carotid artery, beauty parlor stroke syndrome, 395
Carpal tunnel syndrome
  corticosteroid injection versus NSAIDs and splinting, 182
  lumbrical-interosseous recording, 691
  median mononeuropathy of the hand, 421
  railroad workers, 101
  Semmes-Weinstein monofilament testing, 597
  treatment with nerve and tendon gliding exercises, 108
Cell death, oxidative stress and muscular dystrophy, S175
Central post-stroke pain syndrome, 718
Cerebral infarction, role of diffusion-weighted MRI for stroke rehabilitation, 626
Cerebral palsy
  change in muscle length after block of spastic calf muscle, 760
  heart rate variability, power spectrum analysis, 350
  pain treatment, 291
  risk factors in preterm infants, 297
Cerebrovascular accident
  autonomic nervous system after stroke, 721
  beauty parlor stroke syndrome, 395
  central post-stroke pain syndrome, 718
  chronic motor deficits after stroke, effect of force-feedback treatment, 890
Cervical radiculopathy, beauty parlor stroke syndrome, 395
Cervical spine, ankylosing spondylitis, manifested by spontaneous anterior atlantoaxial subluxation, 952
Children
  spinal cord injury, functional improvement, 458
  traumatic brain injury, functional recovery, 661
  *see also* Infants
Chronaxie, diagnosis of muscle denervation, 253
Chronotropic response, heart transplantation and exercise, 584
Clinical measure, of turning, development, older adults, 857
Clinical trials, botulinum toxin in upper limb spasticity, 355
Coma, heterotopic bone formation, 670
Communications, rehabilitation-specific skills training, 126
Comorbidities, influence on FIM℠ change and length of stay during inpatient rehabilitation, 830
Compartment syndrome, exertional, role of MRI, 315
Competency-based education, assessing physicians' interpersonal skills, 946
Complex regional pain syndrome, after stroke, prognosis, clinical factors, 34
Compliance, intervention research reporting in medical rehabilitation journals, 21
Complications, medical, influence on FIM℠ change and length of stay during inpatient rehabilitation, 830
Compression, sural nerve lesions, 876
Computed tomography, adrenal gland volume after spinal cord injury, 483
Concussion, post-concussive syndrome, 609
Congenital muscular dystrophy, dystrophin-glycoprotein complex, deficiencies, molecular pathophysiology of myofiber injury, S162
Contact time, evaluating diabetic footwear, 822
Continuing medical education, reading habits of physiatrists, 779
Continuous positive airway pressure, treatment of obstructive sleep apnea, 622
Contracture, sclerodermoid chronic graft versus host disease, topical treatment, 143
Conversion disorders, misdiagnosis, 236
Coping strategies, identifying, in elderly, 736
Coronary artery bypass grafting (CABG), improvement of cardiorespiratory function after, 336
Coronary artery disease, exercise training in cardiac rehabilitation, 336
Corticosteroid injection, versus NSAIDs and splinting, carpal tunnel syndrome, 182
Cough
  expiratory flows in neuromuscular disease, 506
  mechanical insufflation-exsufflation, 579
  mechanically assisted, Duchenne muscular dystrophy, 411
Creatine kinase, exercise-induced muscle damage, humans, S52
Cross-cultural comparison
  FIM℠ instrument, U.S. and Italy, 168
  stroke rehabilitation, U.S. and Japan, 279
Cumulative trauma disorders, median mononeuropathy of the hand, 421
Cyclists, professional, effect of training status on muscle fibers, 651
Cystometry, conventional, versus stimulated filling cystometry by diuretics, neurogenic bladder after spinal cord injury, 731

Dance, *see* Ballet, classical
Decision-making capacity, clinical ethics in rehabilitation medicine, 708
Deconditioning, neuromuscular disease
  physical activity, health impairments, and disability, S108
  response to aerobic exercise training, S148
Deep-vein thrombosis (DVT), proximal, after hip fracture surgery despite thromboprophylaxis, 745
Design, intervention research reporting in medical rehabilitation journals, 21
Diabetes, footwear, evaluating, comparison of pressure and time parameters, 822
Diagnosis
  muscle denervation, chronaxie and accommodation index, 253
  poliomyelitis, Franklin D. Roosevelt, 557
  sleep apnea, stroke rehabilitation unit, 622
Dialysis patients
  aerobic and strength training during hemodialysis, 814
  effect of low-volume exercise rehabilitation, 162
Disability
  adaptations to disuse and exercise, S108
  back pain, physical function, and estimates of aerobic capacity, 913
  coping strategies, identifying, in elderly, 736
  discharge needs after acute trauma care, 114
  evaluation, 1999 CMR discharges, 133
  factors influencing bone fractures, 424
  movement impairments and disability, 696
  poliomyelitis, Franklin D. Roosevelt, 557
Discharge outcomes, predicting, for stroke patients in Australia, 47
Diuretics, stimulated filling cystometry, 731
Dizziness, during cervical extension into salon sink, 395
Duchenne muscular dystrophy
  cessation of ambulation, predictive factors, 906
  dystrophin-glycoprotein complex, deficiencies, S162
  expiratory flows, 506
  noninvasive management, 411
Dynamic balance, highly active lower-limb amputees, 13
Dynamic gastrocnemius length, change after block of spastic calf muscle, cerebral palsy, 760

Dystonia, treatment of interosseous twitch, 66
Dystroglycans
deficiencies of dystrophin-glycoprotein complex, S162
oxidative stress and muscular dystrophy, S175
Dystrophic hamster, animal model of neuromuscular disease, S81
Dystrophin
-glycoprotein complex, deficiencies, S162
oxidative stress and muscular dystrophy, S175
Dystrophy
adaptations in skeletal muscle disuse or decreased-use atrophy, S127
response to resistive strengthening exercise, S121

Eccentric contraction, mechanisms of muscle injury, animal models, S70
Eccentric exercise, -induced muscle damage, humans, S52
Editorials, 161
Education
clinical ethics in rehabilitation medicine, 708
medical student feedback, 633
Educational measurement, assessing physicians' interpersonal skills, 946
Effort, *see* Muscular effort
Elderly, *see* Aging
Electrocardiography
cardiophysiologic variables, patients with ischemic stroke, 590
patients with chronic spinal cord injury, 601
Electrodiagnosis
carpal tunnel syndrome, 597, 691
median mononeuropathy of the hand, 421
radial nerve injuries, 207
Electromyography
applications, study of muscle fatigue, S99
endplate potentials in trigger points, 212
needle, chronaxie and accommodation index, 253
radial nerve injuries, 207
temporal activity of vastii in knee osteoarthritis, 684
tourniquet blocking of SNAP response, 2
Emotional distress, quality of life after spinal cord injury, 437
Endogenous infection, bacteria and skin pH in hemiplegia, 40
Endplate noise
endplate potentials in trigger points, 212
myofascial trigger spots, effect of botulinum toxin, 512
Endplate potentials, midfiber myofascial trigger points, 212
Endurance training, lower-limb amputees, 321
Energy expenditure, lower-limb amputees, 321
Environmental safety, perceptions, individuals with spinal cord injury, 798
Epidural steroid injections, fluoroscopically guided lumbar transformational, in lumbar stenosis, 898
Ethics, clinical, rehabilitation medicine, 708
Etidronate, effect on bone loss after cessation of exercise, 452
Event-related potentials, cognitive, 524
Exercise
aerobic and strength training during hemodialysis, 814
aerobic training, response, humans with neuromuscular disease, S148
aerobic work capacity, elite wheelchair athletes, 261
assisted versus nonassisted, activation of paraspinal and abdominal muscles, 326
cessation, effect of etidronate on bone loss, 452
effect on functional capacity and self-reported functional status, dialysis patients, 162
exercise and muscle injury in animal models, S151
exertional compartment syndrome, role of MRI, 315
fatigue responses, S81, S99
heart transplantation and, 584
-induced muscle damage, humans, S52
-induced sensory nerve conduction, tourniquet obliteration, 2
intolerance, humans with neuromuscular disease, S148
isokinetic, efficacy on functional capacity and pain, patellofemoral pain syndrome, 807
modified constraint-induced therapy in chronic stroke, 870
MRI quantification of muscle activity, 446
muscle fatigue, animal model of neuromuscular disease, S81
nerve and tendon gliding exercises, 108
physical fitness of lower limb amputees, 321
programs, perioperative, after total hip arthroplasty, 801
reducing risk of falls in osteoporosis, 241
rehabilitation, neuromuscular disease, S108
role in cardiac rehabilitation, 336
role in neuromuscular diseases, S1, S187
training, adaptations to
able-bodied humans and normal animals, S2
animal models of muscular dystrophy, S151
humans and animals with neuromuscular diseases, S80
membrane excitability and calcium homeostasis, S28
neural adaptations with chronic activity patterns, S17
resistance training, S3
skeletal muscle plasticity, S40
Exertional compartment syndrome, role of MRI, 315
Expiratory muscles, weakness, patients with neuromuscular disease, 506
Exsufflation, Duchenne muscular dystrophy, noninvasive management, 411

Falls, accidental
development of clinical measure for turning, older adults, 857
home visits, benefits, elderly, 247
polio survivors, 567
reducing risk, osteoporosis, 241
Feigning, shoulder flexion weakness, identification, 187
FIM℠ instrument
after hip fracture, telephone administration, 639
efficiency, influence of medical comorbidities and complications, 830
time of care for patients after discharge, 57
U.S. and Italy, 168
Fitness
aerobic and strength training during hemodialysis, 814
*see also* Functional fitness; Physical fitness
Fluoxetine, effects on 5-$HT_{1A}$ receptor and recovery of cognitive function after traumatic brain injury, 364
Footwear, diabetic, evaluating, comparison of pressure and time parameters, 822
Force, role of fatigue in limiting physical activity, S99
Four-quadrant method, clinical ethics in rehabilitation medicine, 708
Fractures
polio survivors, 567
severely disabled persons, 424
*see also* Hip fracture
Free radical, oxidative stress and muscular dystrophy, S175
Functional assessment
older patients with ankylosing spondylitis, 416
UDSMR℠ report, patients discharged from comprehensive medical rehabilitation programs in 1999, 133
Functional capacity
patellofemoral pain syndrome, efficacy of isokinetic exercise, 807
self-reported, dialysis patients, effect of exercise, 162
Functional electric stimulation, effects on upper limb motor function and shoulder range of motion, hemiplegic patients, 283
Functional fitness, stroke survivors, 675
Functional independence measure, *see* FIM℠ instrument
Functional MRI, evidence for motor cor-

tex reorganization adjacent to lesion in primary motor cortex, 844
Functional muscle mass, reduced, in neuromuscular disease, S108
Functional outcome
stroke patients, 223
stroke rehabilitation, 279
Functional performance, cardiophysiologic variables, patients with ischemic stroke, 590
Functional recovery
after recurrent hip fracture, 86
pediatric traumatic brain injury, 661
poliomyelitis, Franklin D. Roosevelt, 557
Functional status
dialysis patients, effect of exercise, 162
discharge outcomes after stroke, 47
lumbar-sacral corset after sacrectomy, 72
nursing home rehabilitation program outcomes, 373

Gabapentin, use in central post-stroke pain syndrome, 718
Gait
ankle muscle powers and gait patterns, 429
chronic motor deficits after stroke, effect of force-feedback treatment, 890
influence of rotators in prosthetic gait, 310
tests, performance-based, for acute stroke patients, 848
Geriatrics, *see* Aging
Glutathione, oxidative stress and muscular dystrophy, S175
Glutathione peroxidase, oxidative stress and muscular dystrophy, S175
Golf, injuries, rehabilitation model, 498
Graft versus host disease, sclerodermoid chronic, topical treatment, 143
Gunshot wounds
delayed onset of diabetes insipidus, 788
radial nerve injuries, 207

Head, sonographic soft-tissue measurement, reproducibility, 8
Head injury, penetrating, anterior hypopituitarism with delayed onset of diabetes insipidus, 788
Healthcare management, FIM℠ instrument, U.S. and Italy, 168
Health services accessibility, pain treatment in cerebral palsy, 291
Health status, nursing home rehabilitation program outcomes, 373
Heart disease, electrocardiographic findings, patients with chronic spinal cord injury, 601
Heart rate
reserve, enhanced, effects on aerobic performance, heart transplant patients, 350
variability, power spectrum analysis, cerebral palsy patients, 350
Heat stroke, rehabilitation and, 629
Hemiparesis, autonomic nervous system after stroke, 721
Hemiplegia
autonomic nervous system after stroke, 721
bacteria and skin pH, 40
functional electric stimulation, 283
modified constraint-induced therapy in chronic stroke, 870
sleep apnea, diagnosis and treatment, 622
treating hemiplegic shoulder pain, 150
Heterotopic bone formation, brain-injury-related, 670
Hip arthroplasty
ambulation and perioperative exercise programs, 801
prediction of follow-up living setting, 471
Hip fracture
FIM℠ instrument, telephone administration, 639
recurrent, functional recovery and length of stay, 86
rehabilitation outcomes, older patients, 489
surgery, proximal DVT after despite thromboprophylaxis, 745
Home care, time of care for patients after discharge, 57
Home visits, falls and autonomy, elderly, 247
5-$HT_{1A}$ receptor, immunoreceptivity following traumatic brain injury, effects of fluoxetine, 364
Hydrocephalus, ventriculoperitoneal shunt dysfunction during rehabilitation, 571
Hypopituitarism, anterior, after penetrating head injury, with delayed onset of diabetes insipidus, 788
Hypothermia, associated with autonomic dysreflexia after traumatic spinal cord injury, 232
Hypoventilation, noninvasive ventilation and acute spinal cord injury, 792

Identification
assessing maximality of muscular effort, clinical application of DEC variables, 921
feigned muscular effort, normal subjects, 187
Infants, preterm, risk factors for cerebral palsy, 297
Infection, bacteria and skin pH in hemiplegia, 40
Inflammation, exercise-induced muscle damage, humans, S52
Injury
golf-induced, rehabilitation model, 498
motor control impairment of wrist, 177
polio survivors, 567
*see also* Brain injury, traumatic; Muscle injury; Radial nerve injury; Spinal cord injury
Insulin growth factor 1, skeletal muscle plasticity, S40
Interdisciplinary communications, rehabilitation-specific skills training, 126
Intermittent positive-pressure ventilation, Duchenne muscular dystrophy, 411
International standards, comparison of ASIA classification standards, 502
Intervention research, quality of reporting in medical rehabilitation journals, 21
Ion gradients, membrane excitability and calcium homeostasis in exercising skeletal muscle, S28
Ischemia, beauty parlor stroke syndrome, 395
Isokinetic exercise, efficacy on functional capacity and pain, patellofemoral pain syndrome, 807
Isokinetic measurement, trunk muscle strength, reliability, 79

Journals, medical
quality of intervention research reporting, 21
reading habits of physiatrists, 779

Knee, osteoarthritis, temporal activity of vastii, 684
Knee arthroplasty
function after unicondylar sledge prostheses, 478
prediction of follow-up living setting, 471
Knee pain, patellofemoral pain syndrome, efficacy of isokinetic exercise, 807
Kyphotic posturing, reducing risk of falls in osteoporosis, 241

Learning, fluoxetine in rats after traumatic brain injury, 364
Lecture series, medical student feedback, 633
Length of stay
after recurrent hip fracture, 86
discharge outcomes after stroke, 47
during inpatient rehabilitation, influence of medical comorbidities and complications, 830
Letters to the editor, 636, 956
Life habits, coping strategies, identifying, in elderly, 736
Life satisfaction, comparing outcomes between rehabilitation and cancer patients, 400
Limb-girdle muscular dystrophy, dystrophin-glycoprotein complex, deficiencies, molecular pathophysiology of myofiber injury, S162
Limb immobilization, neural adaptations with chronic activity patterns, S17
Limb unloading, neural adaptations with chronic activity patterns, S17
Literature, reading habits of physiatrists, 779
Living setting, prediction, patients with lower limb joint replacement, 471
Loading state, skeletal muscle plasticity, S40
Locked-in syndrome, intrathecal baclofen pump placement, 307
Long-latency auditory evoked potentials, 524

Low back pain
lumbar spinal strains during whiplash, 645
one-shot percutaneous electrical stimulation versus transcutaneous electrical nerve stimulation, 838
physical function and estimates of aerobic capacity, 913
Lower limb joint replacement, prediction of follow-up living setting, 471
Lumbar-sacral corset, improving function after total sacrectomy, 72
Lumbar spinal strains, associated with whiplash injury, 645
Lumbar stenosis, degenerative, fluoroscopically guided lumbar transformational epidural steroid injections, 898
Lumbrical-interosseous recording, carpal tunnel syndrome, 691
Lymphedema, sonographic soft-tissue measurement, 8

Magnetic resonance imaging (MRI)
evidence for motor cortex reorganization adjacent to lesion in primary motor cortex, 844
exercise-induced muscle damage, humans, S52
quantification of muscle activity, 446
role, exertional compartment syndrome, 315
Magnetic resonance spectroscopy, applications, study of muscle fatigue, S99
Malnutrition, in rehabilitation, 77
Manual lymphatic drainage, sonographic soft-tissue measurement, 8
Maximal oxygen uptake, exercise training in cardiac rehabilitation, 336
Measurement, predictors of acute hospital stroke outcomes, 726
Medial medullary syndrome, diffusion-weighted MRI for stroke rehabilitation, 626
Median nerve, median mononeuropathy of the hand, 421
Medical students, feedback, 633
Merosin, deficiencies of dystrophin-glycoprotein complex, S162
Misattribution, mild traumatic brain injury, 609
Misdiagnosis, conversion disorders, 236
Mitochondria, muscle fiber changes in road cyclists, 651
Mobility, development of clinical measure for turning, older adults, 857
Modified Ashworth Scale, botulinum toxin for spastic toes, 770
Morris water maze, fluoxetine in rats after traumatic brain injury, 364
Motor cortex, injury, motor cortex reorganization, functional MRI evidence, 844
Motor endplate, endplate potentials in trigger points, 212
Motor function
effects of functional electric stimulation, 283
improvement, patient with locked-in syndrome, 307
Motor nerve branches, triceps surae muscle, 765
Motor point, triceps surae muscle, 765
Motor recovery, lesion in primary motor cortex, motor cortex reorganization, functional MRI evidence, 844
Motor skills, impairment, patients with unilateral chronic wrist pain, 177
Motor vehicle accidents
discharge needs after acute trauma care, 114
rear-end collision, lumbar spinal strains during whiplash, 645
*dyldy* Mouse, animal model of neuromuscular disease, S81
*mdx* Mouse
animal model of neuromuscular disease, S81
exercise and muscle injury in animal models, S151
MRI, *see* Magnetic resonance imaging
Multidimensional body-self relations questionnaire, physical activity and body image of amputees, 194
Multidisciplinary approach, golf rehabilitation model, 498
Muscle activity, MRI quantification, 446
Muscle atrophy
disuse or decreased-use, adaptations, S127
skeletal muscle plasticity, S40
Muscle coordination, chronic motor deficits after stroke, effect of force-feedback treatment, 890
Muscle denervation, diagnosis, chronaxie and accommodation index, 253
Muscle fatigue, animal models of neuromuscular disease, S81
Muscle fibers, changes, in road cyclists, 651
Muscle hypertrophy, skeletal muscle plasticity, S40
Muscle injury, contraction-induced
adaptations, animal models of muscular dystrophy, S151
exercise-induced muscle damage, humans, S52
mechanisms, gleaned from animal models, S70
Muscle recovery, poliomyelitis, Franklin D. Roosevelt, 557
Muscle strength
chronic motor deficits after stroke, effect of force-feedback treatment, 890
trunk, isokinetic measurement, reliability, 79
*see also* Strength training
Muscle twitch, interosseous, treatment with botulinum toxin, 66
Muscle weakness
animal models of neuromuscular disease, S81
cessation of ambulation, patients with Duchenne muscular dystrophy, 906
exercise-induced muscle damage, humans, S52
expiratory muscles, patients with neuromuscular disease, 506
movement impairments and disability, 696
Muscular branch, triceps surae muscle, 765
Muscular dystrophy
dystrophin-glycoprotein complex, deficiencies, S162
exercise and muscle injury in animal models, S151
pathogenesis, oxidative stress and, S175
physical activity, health impairments, and disability, S108
role of physical activity and exercise training, S187
*see also* Duchenne muscular dystrophy
Muscular effort
assessing maximality, clinical application of DEC variables, 921
feigned, identification, 187
Musculus vastus lateralis, fibers, effects of training status, professional road cyclists, 651
Myofascial pain
botox on EPN in myofascial trigger spots, 512
endplate potentials in trigger points, 212
verapamil and myofascial trigger spots, 342
Myofascial pain syndrome
botox on EPN in myofascial trigger spots, 512
verapamil and myofascial trigger spots, 342
Myogenesis, adaptations to disuse and exercise, S127
Myopathy, response to resistive strengthening exercise, S121
Myosin heavy chain, skeletal muscle plasticity, S40

N100, cognitive event-related potentials, 524
Neck, sonographic soft-tissue measurement, reproducibility, 8
Neck pain, during cervical extension into salon sink, 395
Needle electromyography, chronaxie and accommodation index, 253
Nerve block, triceps surae muscle, 765
Nerve conduction
sensory, exercise-induced, tourniquet obliteration, 2
studies, carpal tunnel syndrome, 691
Nerve gliding exercises, treatment of carpal tunnel syndrome, 108
Nervous system, neural adaptations with chronic activity patterns, S17
Neuroendocrine dysfunctions, diabetes insipidus after head injury, 788
Neurogenic bladder, conventional cystometry versus stimulated filling cystometry by diuretics, 731
Neuromuscular disease
exercise and muscle injury in animal models, S151

exercise training adaptations, humans and animals, S80
expiratory flows, 506
fatigue, role in limiting physical activities, S99
mechanical insufflation-exsufflation, 579
physical activity, health impairments, and disability, S108
response to aerobic exercise training, S148
response to resistive strengthening exercise training, S121
role of physical activity and exercise training, S1, S187
Neuromuscular electrical stimulation, MRI quantification of muscle activity, 446
Neuropathy
diabetic patients, footwear, evaluating, 822
response to resistive strengthening exercise, S121
Neuropsychological tests, functional outcomes in stroke patients, 223
Nonsteroidal antiinflammatory drugs (NSAIDs), splinting and, versus corticosteroid injection, carpal tunnel syndrome, 182
NSAIDs, *see* Nonsteroidal antiinflammatory drugs
Nursing home
movement impairments and disability, 696
rehabilitation program outcomes, 373

Obesity, carpal tunnel syndrome in railroad workers, 101
Occupation
median mononeuropathy of the hand, 421
railroad workers, carpal tunnel syndrome, 101
Occupational therapists, home visits, falls and autonomy, elderly, 247
Osteoarthritis, knee, temporal activity of vastii, 684
Osteoporosis
etidronate and cessation of exercise, 452
functional recovery after hip fracture, 86
reducing risk of falls, 241
Outcome assessment, discharge needs after acute trauma care, 114
Outcome measures
intervention research reporting in medical rehabilitation journals, 21
pediatric traumatic brain injury, 661
rehabilitation outcomes after hip fracture, 489
Outcomes
discharge
living setting after hip or knee replacement, 471
predicting, for stroke patients in Australia, 47
FIM℠ instrument, U.S. and Italy, 168
nursing home rehabilitation program outcomes, 373
prediction
acute hospital stroke outcomes, 726
cognitive event-related potentials, 524
rehabilitation of older stroke patients, 881
stroke rehabilitation, Japan and U.S., 279
study, intervention research reporting in medical rehabilitation journals, 21
*see also* Functional outcome; Trauma outcome
Overuse weakness, response to resistive strengthening exercise, S121
Oxidative capacity, mechanisms of muscle injury, animal models, S70
Oxidative stress, pathogenesis of muscular dystrophies and, S175
Oximetry, noninvasive ventilation and acute spinal cord injury, 792
Oxygen uptake, heart transplantation and exercise, 584

P300, cognitive event-related potentials, 524
Pain
central post-stroke pain syndrome, 718
control, lumbar-sacral corset after sacrectomy, 72
exertional compartment syndrome, role of MRI, 315
piriformis muscle syndrome, use of botulinum toxin type A, 751
treatment, persons with cerebral palsy, 291
*see also* Low back pain; Myofascial pain; Neck pain; Shoulder pain; Wrist pain
Palpable taut band, endplate potentials in trigger points, 212
Paraffin, topical treatment of scleroderma chronic graft versus host disease, 143
Paralysis
poliomyelitis, Franklin D. Roosevelt, 557
respiratory, Duchenne muscular dystrophy, 411
Paraplegia
autonomic dysreflexia and hypothermia, 232
comparison of ASIA classification standards, 502
spinal cord infarction caused by cardiac tamponade, 68
Paraspinal muscles, activation, assisted versus nonassisted exercise, 326
Patellofemoral pain syndrome, functional capacity and pain, efficacy of isokinetic exercise, 807
Peak expiratory flow, patients with neuromuscular disease, 506
Peak oxygen uptake, aerobic work capacity, elite wheelchair athletes, 261
Peak pressure, evaluating diabetic footwear, 822
Peak torque, reliability of isokinetic trunk muscle strength measurement, 79
Perceived social support, quality of life after spinal cord injury, 437
Percutaneous electrical stimulation, one-shot, versus transcutaneous electrical nerve stimulation, for low back pain, 838
Percutaneous transluminal coronary angioplasty (PTCA), improvement of cardiorespiratory function after, 336
Periventricular leukomalacia, risk factors for cerebral palsy, 297
Physiatrists, practicing, reading habits, 779
Physiatry, *see* Physical medicine and rehabilitation
Physical activity
neural adaptations with chronic activity patterns, S17
participation, effect on body image of amputees, 194
role in neuromuscular diseases, S1, S187
Physical endurance, muscle fiber changes in road cyclists, 651
Physical fitness, lower-limb amputees, 321
Physical medicine and rehabilitation
clinical ethics in rehabilitation medicine, 708
reading habits of physiatrists, 779
Physical performance, gait tests for acute stroke patients, 848
Physical therapy
botulinum toxin and, treatment of piriformis syndrome, 936
clinical measurement of muscle tone, 202
Physical training, cardiac rehabilitation, 336
Physician-patient relations
assessing physicians' interpersonal skills, 946
rehabilitation-specific skills training, 126
Piriformis muscle syndrome, use of botulinum toxin type A, 751
Poliomyelitis
Franklin D. Roosevelt, diagnosis, clinical course, and rehabilitation, 557
life satisfaction and spirituality, 400
survivors, falls and subsequent injuries, 567
Polyneuropharmacologic intervention, brain injury agitation, 90
Post-concussive syndrome, after mild traumatic brain injury, 609
Postmenopausal women, etidronate and cessation of exercise, 452
Postonset duration, hemiplegia, functional electric stimulation, 283
Posture, highly active lower-limb amputees, 13
Power output, aerobic work capacity, elite wheelchair athletes, 261
Power spectrum analysis, heart rate variability, cerebral palsy patients, 350

Pressure-time integral, evaluating diabetic footwear, 822
Preterm infants, risk factors for cerebral palsy, 297
Problem-based learning, assessing physicians' interpersonal skills, 946
Programmable valve shunt system, ventriculoperitoneal shunt, 571
Proprioceptive dynamic posture training, reducing risk of falls in osteoporosis, 241
Proprioceptive function, after unicondylar sledge prostheses, 478
Prostheses
  influence of rotators in prosthetic gait, 310
  unicondylar sledge prostheses, function after, 478
Protein marker, skeletal muscle plasticity, S40
Protein turnover, skeletal muscle plasticity, S40
PTCA, *see* Percutaneous transluminal coronary angioplasty

QT-RR relationship, patients with ischemic stroke, 590
Quadriceps muscle
  MRI quantification of muscle activity, 446
  temporal activity of vastii in knee osteoarthritis, 684
Qualitative measures, performance-based gait tests, acute stroke patients, 848
Quality control, intervention research reporting in medical rehabilitation journals, 21
Quality of life
  after unicondylar sledge prostheses, 478
  comparing outcomes between rehabilitation and cancer patients, 400
  stroke survivors, 675
  subjective, subjects with spinal cord injuries, 437

Radial nerve injury, from gunshot wounds and other trauma, 207
Radiculopathy
  lumbar stenosis, fluoroscopically guided lumbar transformational epidural steroid injections, 898
  salon sink, pain, dizziness, and central nervous system blood flow, 395
Railroad workers, carpal tunnel syndrome, 101
Randomized controlled trials, botulinum toxin in upper limb spasticity, 355
Range of motion, movement impairments and disability, 696
Reading habits, practicing physiatrists, 779
Rear-end collision, lumbar spinal strains during whiplash, 645
Reflex, piriformis syndrome, treatment, botulinum toxin and physical therapy, 936
Regression analysis, clinical measurement of muscle tone, 202
Rehabilitation
  brain injury, traumatic, pediatric, 661
  cardiac, exercise training, 336
  clinical measurement of muscle tone, 202
  dialysis patients
    aerobic and strength training, 814
    exercise and functional capacity, 162
  exercise and muscle injury in animal models, S151
  FIM℠ instrument, U.S. and Italy, 168
  golf rehabilitation model, 498
  heat stroke, 629
  hip fracture
    DVT after surgery, 745
    outcomes after, older patients, 489
  hip or knee replacement, discharge after, 471
  hydrocephalus, ventriculoperitoneal shunt, dysfunction, 571
  intervention research reporting in medical rehabilitation journals, 21
  lumbar-sacral corset after sacrectomy, 72
  lumbar stenosis, fluoroscopically guided lumbar transformational epidural steroid injections, 898
  malnutrition in, 77
  misdiagnosis of conversion disorders, 236
  nursing home rehabilitation program outcomes, 373
  perceptions of environmental safety, 798
  piriformis syndrome, treatment, botulinum toxin and physical therapy, 936
  poliomyelitis, Franklin D. Roosevelt, 557
  spinal cord infarction caused by cardiac tamponade, 68
  spinal cord injury, pediatric, functional improvement, 458
  stroke
    chronic, modified constraint-induced therapy, 870
    community-based rehabilitation, 675
    functional outcomes, 223
    older patients, 881
    outcome study, Japan and U.S., 279
    role of diffusion-weighted MRI, 626
    sleep apnea, diagnosis and treatment, 622
  time of care for patients after discharge, 57
  UDSMR℠ report, 1999 CMR discharges, 133
Reliability of results, intervention research, 21
Repeated bout, exercise-induced muscle damage, humans, S52
Research methodology, intervention research reporting in medical rehabilitation journals, 21
Resident education, clinical ethics in rehabilitation medicine, 708
Resistance training
  performance and physiologic adaptations, S3
  response, humans with neuromuscular disease, S121
Respiratory muscle weakness, patients with neuromuscular disease, 506
Respiratory paralysis, Duchenne muscular dystrophy, 411
Respiratory therapy
  Duchenne muscular dystrophy, 411
  mechanical insufflation-exsufflation, 579
Roosevelt, Franklin D., poliomyelitis, 557
Rorschach test, quality of life after spinal cord injury, 437
R-R interval variation, post-stroke patients, 721

Salon sink radiculopathy, pain, dizziness, and central nervous system blood flow, 395
Sarcomere, mechanisms of muscle injury, animal models, S70
Sarcooglycans, deficiencies of dystrophin-glycoprotein complex, S162
Sciatica, treatment, botulinum toxin and physical therapy, 936
Scleroderma, sclerodermoid chronic graft versus host disease, topical treatment, 143
Seat positioning, biomechanics of manual wheelchair propulsion, 94
Selective nerve root block, fluoroscopically guided lumbar transformational epidural steroid injections in lumbar stenosis, 898
Selective posterior rhizotomy, effect on transverse myelitis, patient with SLE, 467
Self-assessment, perceptions of environmental safety, 798
Self-perception, mild traumatic brain injury, 609
Semmes-Weinstein monofilament testing, carpal tunnel syndrome, 597
Sensory nerve action potential (SNAP), response, tourniquet blocking, 2
Sensory nerve conduction, exercise-induced, tourniquet obliteration, 2
Serotonin, fluoxetine in rats after traumatic brain injury, 364
Shoulder
  flexion weakness, feigned, identification in normal subjects, 187
  range of motion, hemiplegic patients, effects of functional electric stimulation, 283
Shoulder pain, hemiplegic, treating, 150
Shoulder subluxation, complex regional pain syndrome after stroke, 34
Shunt dysfunction, prevalence and countermeasures, patients with ventriculoperitoneal shunt, 571
Skeletal muscle
  disuse or decreased-use atrophy, adaptations, S127
  exercise -induced damage, humans, S52
  fatigue, animal model of neuromuscular disease, S81

membrane excitability and calcium homeostasis, S28
plasticity
adaptations in disuse or decreased-use atrophy, S127
cellular and molecular adaptations, S40
Skin disease, sclerodermoid chronic graft versus host disease, topical treatment, 143
Skin surface pH, bacteria and, patients with hemiplegia, 40
SLE, *see* Systemic lupus erythematosus
Sleep apnea, diagnosis and treatment, 622
SNAP, *see* Sensory nerve action potential
Sodium-potassium pump, membrane excitability and calcium homeostasis in exercising skeletal muscle, S28
Soft tissue, head and neck, sonographic measurement, reproducibility, 8
Soleus muscle length, change after block of spastic calf muscle, cerebral palsy, 760
Somatoform disorder, misdiagnosis of conversion disorders, 236
Sonographic measurement, soft tissue of head and neck, reproducibility, 8
Spasticity
clinical measurement of muscle tone, 202
intrathecal baclofen pump, patient with locked-in syndrome, 307
upper limb
acquired brain injury, botulinum toxin, 355
stroke patients, botulinum toxin, 272
Spastic toes, treatment, local botulinum toxin type A injections, 770
Speech therapy, white-coat effect induced by therapists' presence, 929
Spinal cord infarction, caused by cardiac tamponade, 68
Spinal cord injury
adrenal gland volume after, 483
autonomic dysreflexia and hypothermia, 232
chronic, electrocardiographic findings, 601
clinical measurement of muscle tone, 202
comparison of ASIA classification standards, 502
life satisfaction and spirituality, 400
neurogenic bladder, conventional cystometry versus stimulated filling cystometry by diuretics, 731
noninvasive ventilation and acute spinal cord injury, 792
pediatric, functional improvement, 458
perceptions of environmental safety, 798
subjective quality of life, 437
Spirituality, comparing outcomes between rehabilitation and cancer patients, 400
Splinting
NSAIDs and, versus corticosteroid injection, carpal tunnel syndrome, 182
treatment of carpal tunnel syndrome, 108
Spontaneous electrical activity, verapamil and myofascial trigger spots, 342
Sports medicine, golf rehabilitation model, 498
Sprint capacity, elite wheelchair athletes, 261
Strength training
during hemodialysis, 814
neural adaptations with chronic activity patterns, S17
performance and physiologic adaptations, S3
response, humans with neuromuscular disease S121
Stress-strain, adaptations in skeletal muscle disuse or decreased-use atrophy, S127
Stripping, sural nerve lesions, 876
Stroke
acute hospital outcomes, postadmission function as predictor, 726
autonomic nervous system functions, evaluation, 721
central post-stroke pain syndrome, 718
chronic motor deficits, effect of force-feedback treatment, 890
complex regional pain syndrome after, 34
functional characteristics of survivors, 675
ischemic, cardiophysiologic variables, 590
performance-based gait tests, 848
predicting discharge outcomes, 47
rehabilitation
community-based, 675
functional outcomes, 223
modified constraint-induced therapy, 870
older patients, 881
outcome study, Japan and U.S., 279
role of diffusion-weighted MRI, 626
sleep apnea, diagnosis and treatment, 622
treating hemiplegic shoulder pain, 150
upper limb spasticity, botulinum toxin dilution techniques, 355
intramuscular injection, 272
white-coat effect and speech therapy, 929
Subacute rehabilitation program outcomes, nursing home, 373
Superoxide dismutase, oxidative stress and muscular dystrophy, S175
Sural nerve, lesions, 876
Surface electromyography, assisted versus nonassisted exercise, 326
Surgical excision, heterotopic bone formation, 670
Sympathetic reflex dystrophy, complex regional pain syndrome after stroke, 34
Sympathetic skin response, post-stroke patients, 721
Symptom severity scale, corticosteroid in carpal tunnel syndrome, 182
Systemic lupus erythematosus (SLE), effect of selective posterior rhizotomy on transverse myelitis, 467

Teaching, medical student feedback, 633
Telephone administration, FIM℠ instrument, after hip fracture, 639
Tendon gliding exercises, treatment of carpal tunnel syndrome, 108
Tetraplegia
autonomic dysreflexia and hypothermia, 232
comparison of ASIA classification standards, 502
noninvasive ventilation and acute spinal cord injury, 792
Thenar motor syndrome, median mononeuropathy of the hand, 421
Thermoregulatory dysfunction, autonomic dysreflexia and hypothermia, 232
Three-dimensional gait analysis, ankle muscle powers and gait patterns, 429
Thromboprophylaxis, DVT after hip fracture surgery, 745
Tomography, adrenal gland volume after spinal cord injury, 483
Total hip replacement, *see* Hip arthroplasty
Total knee replacement, *see* Knee arthroplasty
Total sacrectomy, improving function after, use of lumbar-sacral corset, 74
Tourniquet, obliteration of exercise-induced sensory nerve conduction, 2
Training
hours, elite wheelchair athletes, 261
membrane excitability and calcium homeostasis in exercising skeletal muscle, S28
muscle fiber changes in road cyclists, 651
*see also* Endurance training; Exercise; Physical training
Transcriptional regulation, skeletal muscle plasticity, S40
Transcutaneous electrical nerve stimulation, versus one-shot percutaneous electrical stimulation, for low back pain, 838
Transverse myelitis, effect of selective posterior rhizotomy, patient with SLE, 467
Trauma
autonomic dysreflexia and hypothermia, 232
radial nerve injuries, 207
sural nerve lesions, 876
*see also* Brain injury, traumatic; Cumulative trauma disorders
Trauma center, discharge needs after acute trauma care, 114
Trauma outcome, discharge needs after acute trauma care, 114
Treatment outcome
intervention research reporting in

medical rehabilitation journals, 21
piriformis syndrome, botulinum toxin and physical therapy, 936
Triceps surae muscle, localization of motor nerve branches and motor points, 765
Trigger points, midfiber myofascial, endplate potentials, 212
Trunk, muscle strength, isokinetic measurement, reliability, 79
Turning, development of clinical measure, older adults, 857

Ultrasonography
cerebral ultrasound, risk factors for cerebral palsy in preterm infants, 297
DVT after hip fracture surgery, 745
Unicondylar sledge prostheses, function after, 478
Uniform Data System for Medical Rehabilitation (UDSMR℠), report of patients discharged from comprehensive medical rehabilitation programs in 1999, 133

Validity
FIM℠ instrument, U.S. and Italy, 168
of results, intervention research, 21
Ventilation, mechanical, noninvasive
Duchenne muscular dystrophy, 411
mechanical insufflation-exsufflation, 579
traumatic tetraplegia, 792
Ventriculoperitoneal shunt, dysfunction, 571
Verapamil, effects on electrical activity in myofascial trigger spots, 342
Vertebrobasilar insufficiency, beauty parlor stroke syndrome, 395
Veterans, carpal tunnel syndrome, 597, 691

Walking speed, evaluating diabetic footwear, 822
Weight lifting, performance and physiologic adaptations, S3
Western Aphasia Battery, white-coat effect and speech therapy, 929
Wheelchair
athletes, elite, aerobic work capacity, 261
manual propulsion, biomechanics, elderly, 94
Whiplash, lumbar spinal strains associated with injury, 645
White-coat effect, induced by therapists' presence during speech therapy, 929
Women, postmenopausal, etidronate and cessation of exercise, 452
Wrist pain, unilateral chronic, motor control impairment of contralateral wrist, 177

The five-year Author Index and Subject Index are available at www.amjphysmedrehab.com